Derwent Record

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Derwent Title: **Noble metals extn. from ores with improved efficiency - includes treating ore and pyrolusite with sulphuric acid soln. contg. chloride ions**

Original Title: ☑ SU1785536A3: METHOD FOR WINNING PRECIOUS METALS FROM ORES AND FROM PRODUCTS OF THEIR PROCESSING

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Accession/ Update: **1994-032801 / 199404**

IPC Code: **C22B 3/06** ; C22B 11/00 ;

Derwent Classes: **J01**; **M25**;

Manual Codes: **J01-K**(Solid/solid separation [unclassified]) , **M25-B03** (Wet extraction of metal compounds from ores - ion exchange) , **M25-G20**(Obtaining specific metals - noble metals) , **M25-G22**(Obtaining specific metals - silver)

Derwent Abstract:

(SU1785536A) Au extn. using autoclave vat and pile leaching. It consists of treating the ore with Mn-contg. material (MnO2 or pyrolusite) and an aq. acid soln. (H2SO4) contg. chloride ions (as NaCl); chemically reducing and fully converting the pyrolusite; and extracting the noble metals.
A portion of the fully treated Mn-contg. material is combined with the ore, and the acidity and redox potential of the original acid soln. are measured. The remainder of the Mn-contg. material is used to treat the original acid soln. to produce a soln. that is diluted with an aq. soln. contg. chloride ions which is used to treat the ore. The redox potential of the resultant soln. is measured, and the Mn-contg. material plus ore are treated at an acidity equal to that of the original acid soln. after dilution to ensure that the redox potential of the resultant soln. is maintained above that of the original acid soln. The original acid soln. contains a mixt. of acid with no potential inducing constituents.
Advantage - The nobel metals extn. efficiency is increased, and the consumption of acid and Mn-contg. material is reduced.
In an example, an ore contg. 4.6g/ton Au was treated as described above. This gave extn. efficiencies of about 88% as compared with about 57% using a known procedure. Bul.48/30.12.92.

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Family:

PDF	Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
☑	SU1785536A3	* 1992-12-30	199404	6	English	C22B 3/06

Local appls.: SU1991004929654 Filed:1991-03-19 (91SU-4929654)

Priority Number:

Application Number	Filed	Original Title
SU1991004929654	1991-03-19	METHOD FOR WINNING PRECIOUS METALS FROM ORES AND FROM PRODUCTS OF THEIR PROCESSING

Related Accessions:

Accession Number	Type	Derwent Update	Derwent Title
C1994-015302	C		
1 item found			

Title Terms: NOBLE METAL EXTRACT ORE IMPROVE EFFICIENCY TREAT ORE PYROLUSITE SULPHURIC ACID SOLUTION CONTAIN CHLORIDE ION

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